AMENDMENTS TO CLAIMS

1. (Currently Amended) A balance of precision including

(a) an elongate base having

(i) a first end and a second end; and

(ii) a floor;

(b) at least one auxiliary weight;

(c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;

(d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including

(i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,

(ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having

an elongate upper edge,

an outer end, and

a notch formed in said outer end thereof,

(iii) a symmetrical pan having

an upper lip, and

a pair of ears extending outwardly from said pan, each ear

normally riding in one of said notches such that said ear can turn in said notch and support said pan above said floor when said lever assembly is in equipoise,

(iv) a first graduated scale arm attached to and outwardly extending from said body member and having an outer end generally positioned between said fulcrum and said wall and adjacent and level with said upper edge of said

wall when said beam assembly is in equipoise, said scale arm including

a measurement scale and a scale weight (41A) slidably mounted thereon for balancing said beam assembly when said beam assembly is in equipoise, said measurement scale comprising a series of marked off spaces used to measure weight,

an aperture formed in said ~~measurement~~ graduated scale arm to receive removably said auxiliary weight, and

a bottom (78).

2. (New) A balance of precision including

(a) an elongate base having

(i) a first end and a second end; and

(ii) a floor;

(b) at least one auxiliary weight;

(c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;

(d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including

(i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,

(ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having

an elongate upper edge,

an outer end, and

a notch formed in said outer end thereof,

(iii) a symmetrical pan having

an upper lip, and

a pair of ears extending outwardly from said pan, each ear normally riding in one of said notches such that said ear can turn in said notch and support said pan above said floor when said lever assembly is in equipoise,

(iv) a first graduated scale arm attached to and outwardly extending from said

body member and having

a pair of edges (60, 62),

an inner end adjacent said body, and

an outer end generally positioned between said fulcrum and said wall and adjacent and level with said upper edge of said wall when said beam assembly is in equipoise,

said graduated scale arm including

a measurement scale comprising a series of marked off spaces used to measure weight,

a scale weight (41A) slidably mounted thereon to slide along said edges to balance said beam assembly when said beam assembly is in equipoise,

a location at one of a pair comprising

said inner end, and

said outer end,

to mount said auxiliary weight (43), and

a bottom (78),

said scale weight including a detent (41B) shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said auxiliary weight such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight and at least one of said edges.

3. (New) A balance of precision including

(a) an elongate base having

(i) a first end and a second end; and

(ii) a floor;

(b) at least one auxiliary weight;

(c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;

(d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including

(i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,

(ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having
an elongate upper edge,
an outer end, and
a notch formed in said outer end thereof,

(iii) a symmetrical pan having
an upper lip, and
a pair of ears extending outwardly from said pan, each ear normally riding in one of said notches such that said ear can turn in said notch and support said pan above said floor when said lever assembly is in equipoise,

(iv) a first graduated scale arm (38A) attached to and outwardly extending from said body member and having
a pair of edges (60, 62),
an inner end adjacent said body, and
an outer end generally positioned between said fulcrum and said wall and adjacent and level with said upper edge of said wall when said beam assembly is in equipoise,
said graduated scale arm including
a measurement scale comprising a series of marked off spaces used to measure weight,
a scale weight (41A) slidably mounted thereon to slide along said edges to balance said beam assembly when said beam assembly is in equipoise,
a location at one of a pair comprising
said inner end, and
said outer end,
to mount said auxiliary weight (43), and
a bottom (78),
said scale weight including a detent (41B) shaped to fit, when said auxiliary

weight is mounted at said location, at least partially around said auxiliary weight such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight and at least one of said edges, and

(v) a second scale arm (39) attached to and outwardly extending from said body member and having at least one location for removably mounting a supplemental weight.

4. (New) The balance of Claim 1 wherein said scale weight (41A) includes a pointer (50) movable into registration with selected points on said measurement scale when said scale weight (41A) is slidably moved along said graduated scale arm.

5. (New) The balance of Claim 2 wherein said scale weight (41A) includes a pointer (50) movable into registration with selected points on said measurement scale when said scale weight (41A) is slidably moved along said graduated scale arm.

6. (New) The balance of Claim 3 wherein said scale weight (41A) includes a pointer (50) movable into registration with selected points on said measurement scale when said scale weight (41A) is slidably moved along said graduated scale arm.

7. (New) The balance of Claim 5 wherein said portion of said scale weight comprises said pointer.

8. (New) The balance of Claim 6 wherein said portion of said scale weight comprises said pointer.

9. (New) The balance of Claim 1 wherein

(a) when said auxiliary weight is mounted in said aperture, a foot portion (43C) of said auxiliary weight extends through said aperture and outwardly from said bottom (78) of said graduated scale arm;

(b) said scale weight includes

(i) a bridging section extending over and beneath said bottom (78) of said

graduated scale arm; and,

(ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.

10. (New) The balance of Claim 2 wherein

(a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said auxiliary weight extends outwardly from said bottom (78) of said graduated scale arm;

(b) said scale weight includes

(i) a bridging section extending over and beneath said bottom (78) of said graduated scale arm; and,

(ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.

11. (New) The balance of Claim 3 wherein

(a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said auxiliary weight extends outwardly from said bottom (78) of said graduated scale arm;

(b) said scale weight includes

(i) a bridging section extending over and beneath said bottom (78) of said graduated scale arm; and,

(ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.